

B.C.A. (Part—I) Semester—I Examination
1ST2 : C-PROGRAMMING

Time : Three Hours]

[Maximum Marks : 60

- Note :—**(1) All questions are compulsory.
(2) All questions carry equal marks.
(3) Assume suitable data if necessary.
(4) Draw neat sketches if required.

1. (a) Explain enumerated data type with example. 6
- (b) Give brief history of C and explain its features. 6

OR

2. (a) What is symbolic constant ? Explain different ways of defining symbolic constants in C. 6
- (b) Print the following output in C program :
"Happy Diwali" 2

(c) Write appropriate declaration for each group of variables :

- (i) Character variable a, b
 - (ii) Long integer variable digit
 - (iii) Integer variable c, d
 - (iv) Double-precision variable e, f. 4
3. (a) Explain bitwise operators with example. 6
 - (b) Explain comma and conditional operators with example. 6

OR

4. (a) Write a program in 'C' to find smallest among three given numbers using conditional operator. 6
 - (b) Explain Relational operators with example. 6
5. (a) Explain formatted printf () and scanf () functions with example. 6
 - (b) Explain the following functions with suitable example :
 - (i) gets ()
 - (ii) putchar ()
 - (iii) puts (). 6

OR

6. (a) Write a program in C to exchange two characters. 6
- (b) Explain getche (), putchar () and putche () with example. 6

7. (a) Explain switch statement with example. 6
(b) Write a difference between While loop and Do....While loop. 6

OR

8. (a) Explain different forms of If statement with example. 6
(b) Explain the following with syntax and example :
(i) While
(ii) Do....While. 6
9. (a) What is pointer ? Explain declaration of pointer with example. 6
(b) What is Array ? What are the advantages and disadvantages of an array ? 6

OR

10. (a) Define the following terms in brief :
(i) One Dimensional Array
(ii) Two Dimensional Array
(iii) Multi Dimensional Array. 6
(b) Explain pointer arithmetic and pointer comparison. 6